DEC STD 024-1 Top Document Requirements - DRB 126C Format

DOCUMENT IDENTIFIER: A-DS-EL00024-01-0000 Rev C1, 04-Jan-1991

ABSTRACT: This section defines the content requirements for drawing directory format DRB 126C when used as a Top Document.

APPLICABILITY: Mandatory for individuals who need to originate a Top Document using the DRB 126C format.

STATUS: APPROVED 04-Jan-1991; use VTX SMC for current status.

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APPROVAL: This document has been recommended for approval by the General Review Group for its category. The C1 revision is an update with clerical changes only.

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1 INTRODUCTION

1.1 PURPOSE

This section of DEC STD 024 establishes the rules that apply to Top Documents prepared on the DRB 126C format. The purpose of these rules is to assure that the Top Document will comply with the requirements of appropriate Digital standards related to engineering documentation.

1.2 SCOPE

This section is intended to be a source of information for individuals who need to originate a Top Document on the DRB 126C format.

The DRB 126C format provides space for listing the revisions for each part and for each drawing or document in the document set. General rules for listing revisions and pertinent revision control information are included in this standard. Specific details are included in the applicable Digital standards that are referenced in this document.

The DRB 127A is the continuation page that accompanies the DRB 126C format.

1.3 RESPONSIBILITIES

1.3.1 Originators

Originators of DRB 126C Top Documents are required to follow the general rules of this standard and the specific rules of related Digital standards that apply to Top Document information content and format requirements.

1.3.2 Engineering Services Design/Drafting

The Design/Drafting group at each site is responsible for processing drawings for release to the Engineering Documentation System and shall ensure that the Top Documents produced and accepted at each site meet the requirements of this standard.

2 REQUIREMENTS

Figure 1 shows an example of the DRB 126C format.

The basic requirements for all Top Documents, as stated in *DEC STD 024-0 Top Document Requirements*, apply to the DRB 126C format. The following subheads specify content and format requirements that are unique to the DRB 126C drawing directory format.

2.1 WHEN DRB 126C IS REQUIRED

The DRB 126C drawing directory format is required when one of the following occurs.

a. When document sets consist of three or more documents in addition to the drawing directory.

b. For all printed-circuit board (50-level) and module (option or 54-level) top documents. Refer to *DEC STD 140-0 Documentation, Data, and Release Requirements for Printed-Wiring Boards, Modules, and Backplanes - Introduction*

c. For basic hardware configuration (kernel) top documents used with packaged systems documentation.

2.2 ORGANIZATION

When the DRB 126C format is used, a structured listing such as DRB 107A or DRB 108A may be used to show the product's multilevel structure. Subheads 5 and 6 provide an explanation of these listings.

NOTE

It is the intention to eliminate the use of the DRB 107A and DRB 108A formats when a similiar on-line capability is available.

The specific rules for grouping the drawings for a module are provided in DEC STD 140.

Figure 1: Sample DRB 126C Format

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
		DISK-AA	DISK DRIVE	A1
K-PL-DISK-0-DBP			DISK PARTS LIST	A
O-UA-DISK-0-0			DISK ASSEMBLY	B
K-CS-DISK-0-0			DISK SCHEMATIC	A
A-SP-DISK-0-0			DISK SPECIFICATION	B

SAMPLE

NOTES:

REVISION HISTORY

REV.	ECO NO.	DATE
A	XBL	SEP 90

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DRN. XXXX	DATE 04-SEP-90	TITLE DISK DRIVE ASSEMBLY
CHK'D YYYY	DATE 04-SEP-90	
DES. ENG. ZZZZ	DATE 04-SEP-90	DOCUMENT NUMBER
RESP. ENG. AAAA	DATE 04-SEP-90	SIZE B · CODE DD · NUMBER DISK-0-0 · REV. A
MFG. ENG. BBBB	DATE 04-SEP-90	SHEET 1 OF 3

DRB 126C EN-01242-10-REVA (336)

2.3 TITLE BLOCK

The title block information requirements are described in *DEC STD 013-1 Standard Engineering Drawing Formats and Forms - General Purpose Drawing Sizes and Formats.*

2.4 HARDWARE VARIATIONS

All hardware variations covered by the top document shall be indicated on the DRB 126C drawing directory. DEC STD 140 provides examples of how to list module variations.

3 REVISION CONTROL REQUIREMENTS

The REVISIONS column and the drawing list form a matrix that contains the appropriate revision level of each drawing for a particular revision of the part. Refer to Figure 1.

If the list of hardware fills the available space, the next REVISION entry will be placed on a new sheet. Drawing numbers and their titles, and part numbers and their descriptions will be transcribed to the new sheet.

4 COMPUTER-GENERATED FORMAT

A computer-generated drawing directory can be used, provided that it contains the same information in a similar format to the DRB 126C. *DEC STD 013-3 Standard Engineering Drawing Formats and Forms - Computer Output Drawing Formats* provides information on how to access specific formats.

A word processor format similar to DRB 126C is available and authorized for use. See Figure 2. To order a copy of the format on a word processing floppy disk, contact:

STANDARDS AND METHODS CONTROL
NRO4/D4 DTN: 287-3724 JOKUR::SMC

Figure 2: Word Processor Drawing Directory Format, First Sheet

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS

NOTES:

REVISION HISTORY

REVISION																			
ECO NO.																			
DATE																			

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DRN:	DATE:	d i g i t a l
DRN:	DATE:	TITLE
DRN:	DATE:	SHEET OF
DRN:	DATE:	DOCUMENT NUMBER
DRN:	DATE:	SIZE K / CODE DD / NUMBER / REV

5 DRB 107A FORMAT

The DRB 107A format provides a block diagram of the documentation structure that is covered by the DRB 126C drawing directory. A sample DRB 107A is shown in Figure 3. Figure 4 shows typical dimensions of the block diagram. The DRB 107A cannot be used as a top document.

The rules for preparing this block diagram are as follows.

a. The title and document identifier of the top document shall be placed in the top center box of the family tree.

b. Subassembly titles and drawing numbers shall be listed in appropriate boxes beneath the top level box, as required, to depict all levels of assembly.

c. Find-numbers, which are used to quickly locate information on the drawing, shall be placed within a 0.35-inch circle, centered above each first- and second-level assembly box and centered along the left edge of each lower-level assembly box.

d. The find-number of the highest-level assembly shall be designated "1". The remaining subassemblies shall be numbered sequentially from left to right, beginning on the left edge of the diagram and continuing, left-to-right, top-to-bottom, until all boxes are assigned a find-number.

NOTE

The KS10 Processor drawing directory, B-DD-KS10-0, is a good example of how to assign find-numbers to assemblies and subassemblies shown on the DD for a large, complex unit or option.

e. At initial release of the drawing directory, the find- numbers on the DRB 107A format sheet(s) shall be assigned sequentially from 1 to n.

If a subsequent ECO requires that a find-numbered item be deleted from the DD, the find-number may be retained, with the notation "item deleted," to avoid renumbering all subsequent, higher numbered items on the DD.

If a subsequent ECO requires that a find-numbered item be added to the DD, assign the next find-number in sequence to the new item even though it has to be/located in the middle of the "tree".

Figure 3: Sample DRB 107A Format

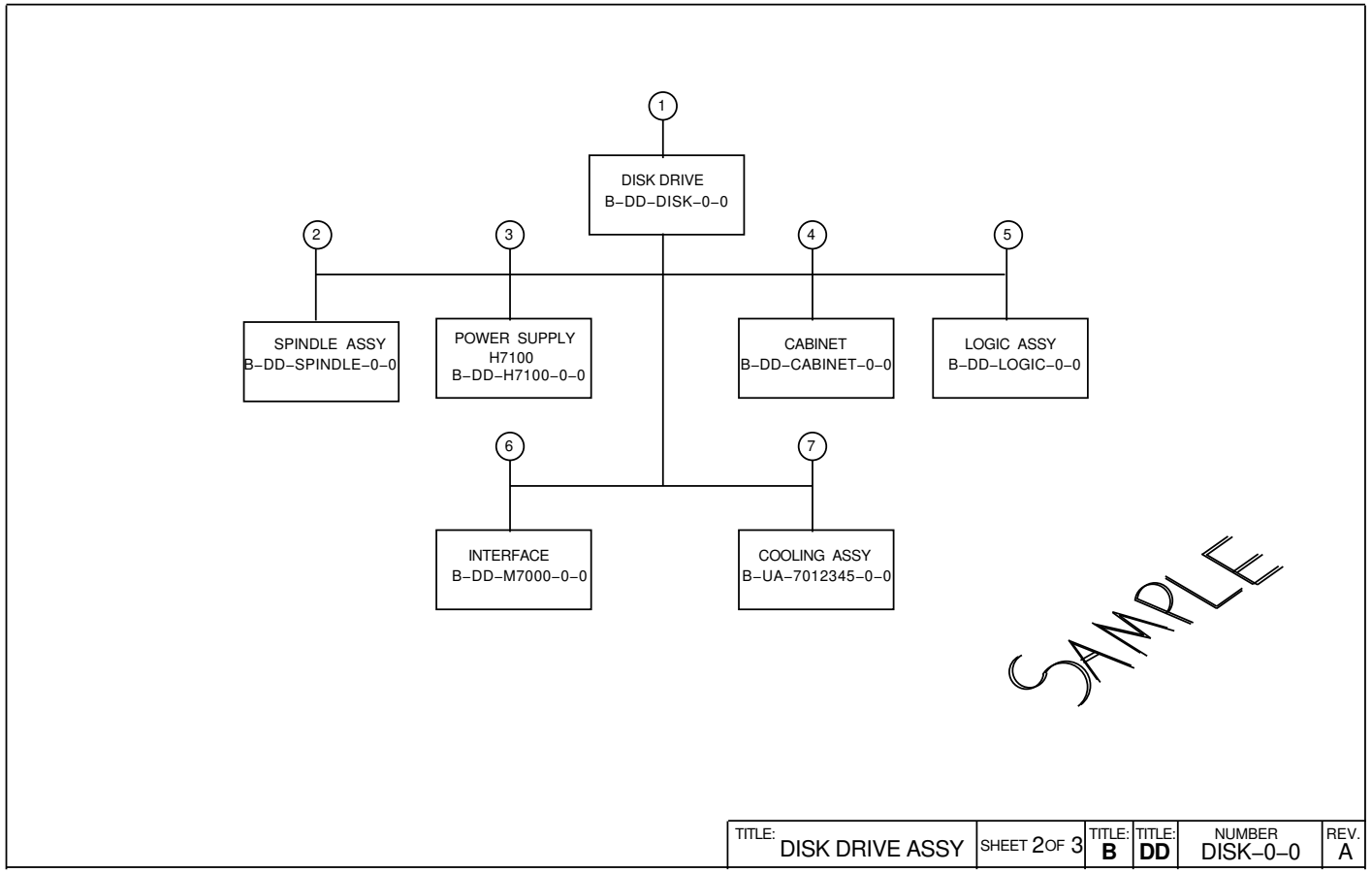
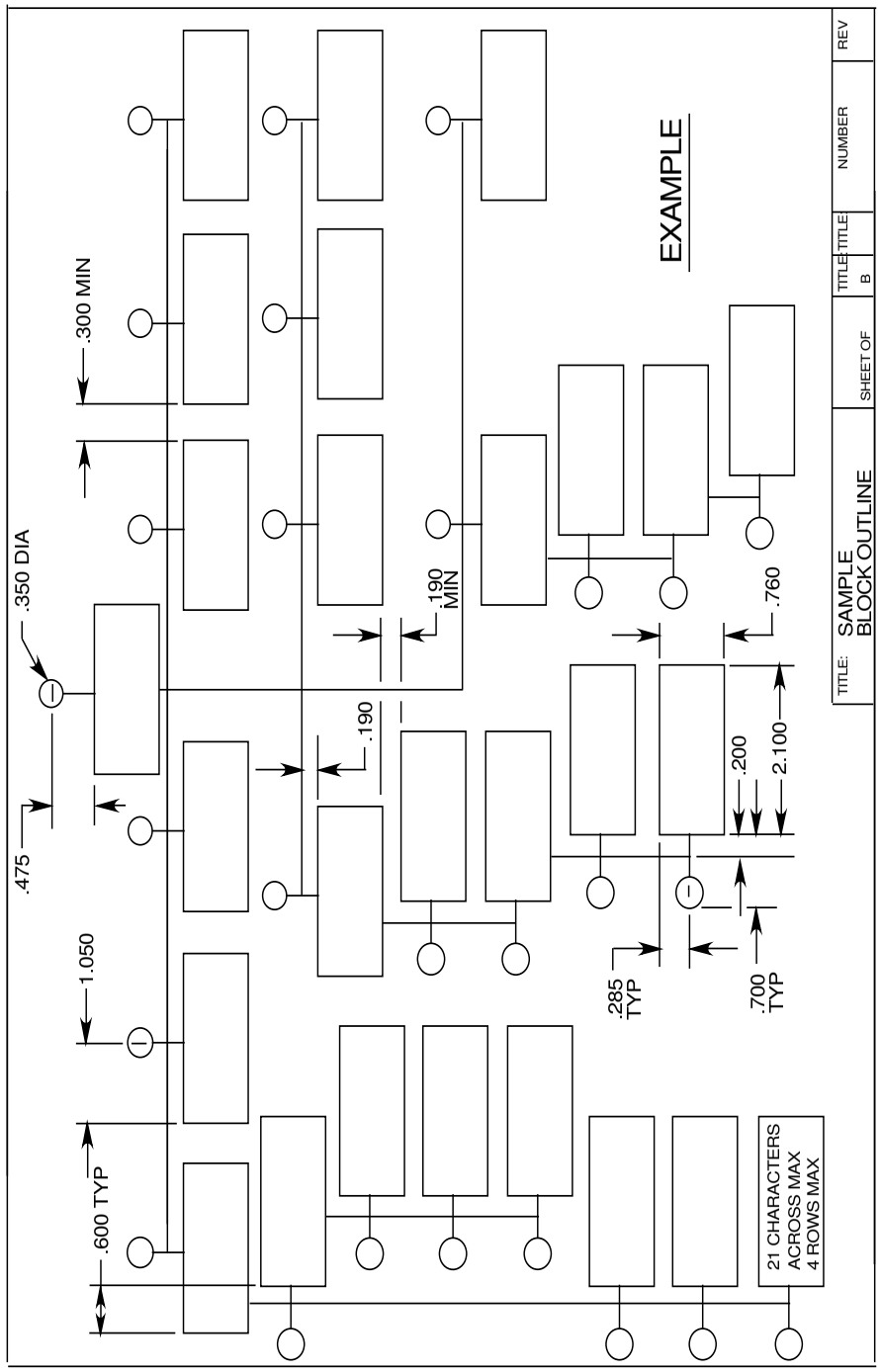


Figure 4: Typical Dimensions of the DRB 107A Block Diagram



6 DRB 108A FORMAT

The DRB 108A format, shown in Figure 5, is used to list all the engineering documentation that describes the unit or option. It cannot be used as a top document.

Engineering specifications associated with end-items or subassemblies shall be listed under the find-number that relates to that end-item or subassembly.

NOTE

Engineering documents that are not formally approved (signed off) for release to the Engineering Documentation System shall not be listed. They shall be added by an ECO when they are released.

The specific information required in each field of the DRB 108A format is described in the following subheads.

6.1 FIND-NUMBER

The index number that relates the block diagram of the assembly levels (Figure 3) to the tabulated index list of engineering documentation (Figure 5).

6.2 DRAWING NUMBER AND DESCRIPTION

List the complete engineering document identifier for each engineering document. Each number must be listed exactly as specified on the assembly level block diagram. The title of each engineering document shall be as indicated in the title block.

After all the documents of the highest level assembly have been listed, at least six lines shall be left blank to allow for possible additions. Then subassembly documentation shall be listed, with a minimum of four lines left blank to separate each find number section.

NOTE

The documents listed on the DRB 108A shall not have their revisions listed.

Figure 5: Sample DRB 108A Format

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1.	B–DD–DISK–0–0	DISK DRIVE	
	K–KPL–DISK–0–DBP	DISK PARTS LIST	
	D–UA–DISK–0–0	DISK ASSEMBLY	
	K–CS–DISK–0–0	DISK SCHEMATIC	
	A–SP–DISK–0–0	DISK SPECIFICATION	
2.	B–DD–DISK–0–0	SPINOLE ASSEMBLY	
	K–KPL–DISK–0–DBP	SPINOLE PARTS LIST	
	D–UA–DISK–0–0	SPINOLE SUPPLY SCHEMATIC	
3.	B–DD–DISK–0–0	POWER SUPPLY (H7100)	
	K–KPL–DISK–0–DBP	POWER SUPPLY PARTS LIST	
	D–UA–DISK–0–0	POWER SUPPLY ASSEMBLY	
	K–CS–DISK–0–0	POWER SUPPLY SCHEMATIC	
4.	B–DD–DISK–0–0	CABINET	
	K–KPL–DISK–0–DBP	CABINET PARTS LIST	
	D–UA–DISK–0–0	CABINET ASSEMBLY	
3.	B–DD–DISK–0–0	LOGIC ASSEMBLY	
	K–KPL–DISK–0–DBP	LOGIC PARTS LIST	
	D–UA–DISK–0–0	LOGIC ASSEMBLY	
	K–CS–DISK–0–0	LOGIC SCHEMATIC	

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
6.	B–DD–M7000–0–0	INTERFACE	
	K–PL–M7000–0–DBP	INTERFACE PARTS LIST	
	D–UA–M7000–0–0	INTERFACE ASSEMBLY	
	K–CS–M7000–0–0	INTERFACE SCHEMATIC	
	A–SP–M7000–0–0	INTERFACE SPECIFICATION	
7.	D–UA–7012345–0–0	COOLING UNIT ASSEMBLY	
	K–PL–7012345–0–0	COOLING UNIT PARTS LIST	

SAMPLE

TYPE: E ELECTRICAL
M MECHANICAL
E / M ELECTRICAL / MECHANICAL

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TITLE:	SHEET 3 of 3	SIZE	CODE	NUMBER	Rev.
DISK DRIVE ASSEMBLY		B	DD	DISK–0–0	A

DRB 108A
EN–01238–16–REVA13061

6.3 TYPE

This column is optional. It can be used to indicate the type of drawing listed. The codes are assigned as follows.

E (electrical):	Documents with design and application characteristics for electrical, electronic, and power generation equipment, and for interconnection, cabling, and distribution circuits.
M (mechanical):	Documents with design and application characteristics that pertain to assembly and construction of physical mechanical structures.
E/M (electrical /mechanical)	Documents with design and application characteristics that combine the electrical and mechanical types listed above.

APPENDIX A REFERENCED DOCUMENTS

A.1 EL-Class Digital Documents

EL-Class Number	Document Title
EL-00013-01	*DEC STD 013-1 Standard Engineering Drawing Formats and Forms - General Purpose Drawing Sizes and Formats*
EL-00013-03	*DEC STD 013-3 Standard Engineering Drawing Formats and Forms - Computer Output Drawing Formats*
EL-00024-00	*DEC STD 024-0 Top Document Requirements*
EL-00140-00	*DEC STD 140-0 Documentation, Data, and Release Requirements for Printed-Wiring Boards, Modules, and Backplanes - Introduction*

Use VTX SMC to order copies of EL-class documents from Standards and Methods Control. Send distribution questions to JOKUR::SMC or call DTN: 234-4423.

APPENDIX B RELATED DOCUMENTS

B.1 Other Documents

Document Number	Document Title
EN-01237-16	*DRB 107A Drawing Directory Continuation*
EN-01238-16	*DRB 108A Drawing Directory List*
EN-01242-16	*DRB 126C Drawing Directory*
EN-01279-16	*DRB 127A Drawing Directory - Continuation Sheet*

B.2 Ordering Information

Following are the sources for documents not available from Standards and Methods Control.

To order copies of these forms, contact your purchasing agent, who will have the name of an approved vendor to use in obtaining these forms. A word processing floppy containing the DRB 126C and DRB 127A drawing directory formats may be obtained from Standards and Methods Control, NRO4/D4, DTN: 287-3724, JOKUR::SMC. DEC STD 013-3 also provides information on accessing on-line formats of the above forms.

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